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(54) Title: FUNCTIONAL SCREENING METHOD INVOLVING PROTEIN TRANSLOCATION/REDISTRIBUTION

(57) **Abstract:** The present invention provides high-throughput functional genomic methods for determining gene and protein function in a cellular context. Also provided are methods for identifying chemical modulators of gene and protein/enzyme activity. Assays are generated in concert with screening in an iterative process which expands the scope of biological coverage with each iteration and which uses image-based analysis to yield data at sub-cellular resolution.

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